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PATENT COOPERATION TREATY

PCT



INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 1499	FOR FURTHER ACTION SeeNotification of Translation	ansmittalofInternational Preliminar			
International application No.	Examination Report	(Form PCT/IPEA/416)			
PCT/JP2003/009459	International filing date (day/month/year) Priorit	y date (day/month/year)			
	25 July 2003 (25.07.2003)	25 July 2002 (25.07.2002)			
International Patent Classification (IPC) or n C12P 7/66	ational classification and IPC	·			
Applicant					
K	YOWA HAKKO KOGYO CO., LTD.				
This international preliminary examinand is transmitted to the applicant according to the acco	nation report has been prepared by this International Prording to Article 36.	reliminary Examining Authority			
2. This REPORT consists of a total of3 sheets, including this cover sheet.					
This report is also accompanie amended and are the basis for 70.16 and Section 607 of the A	d by ANNEXES, i.e., sheets of the description, claims his report and/or sheets containing rectifications madedministrative Instructions under the PCT).	and/or drawings which have been de before this Authority (see Rule			
These annexes consist of a total					
3. This report contains indications relating to the following items:					
I Basis of the report					
II Priority					
III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
IV Lack of unity of invent	ion				
V Reasoned statement un citations and explanation	der Article 35(2) with regard to novelty, inventive stepons supporting such statement	o or industrial applicability;			
VI Certain documents cited					
VII Certain defects in the international application					
VIII Certain observations on the international application					
ate of submission of the demand	Date of completion City				
25 December 2003 (25.12.2	1021	Date of completion of this report 20 January 2004 (20.01.2004)			
me and mailing address of the IPEA/JP	Authorized officer	Authorized officer			
csimile No.	Telephone No.				

Form PCT/IPEA/409 (cover sheet) (July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP2003/009459

Basis of the report					
With	regard to	the elements of the international application:*			
\boxtimes	the inter	national application as originally filed			
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] <u>[</u>	cont	ained in the international application in written form.			
ļĻ	filed	together with the international application in computer readable form.			
ļļ	furn	ished subsequently to this Authority in written form.			
	The	ished subsequently to this Authority in computer readable form. statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the mational application as filed has been furnished.			
	The been	rnational application as fried has occur infinished. statement that the information recorded in computer readable form is identical to the written sequence listing has in furnished.			
4.	The	amendments have resulted in the cancellation of:			
17. 1		the description, pages			
1	H	the claims, Nos.			
	H	the drawings, sheets/fig			
5.	This	s report has been established as if (some of) the amendments had not been made, since they have been considered to go ond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**			
1	Replacem in this re	ent sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to Port as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16			
**	and 70.17 Any repla). I cement sheet containing such amendments must be referred to under item 1 and annexed to this report.			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/JP 03/09459

NO

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement			**************************************		
	Novelty (N)	Claims	1-6	YES		
	HOLORY (TA)	Claims		, ои		
	Inventive step (IS)	Claims	1-6	YES		
		Claims		NO NO		
	Industrial applicability (IA)	Claims	1-6	YES		

Claims

2. Citations and explanations

Document 1: M. SHANSHAL et al., "Physicochemical Studies of the Solution Behaviour of Ubiquinone (CoQ). 2. The Association of Ubiquinone, 0 in Aqueous Phosphate Buffer and in Methanol Solutions and of Ubiquinone, 10 in n-hexane and in Ethanol Solutions," Stud. Biophys., 1984, Vol. 103, No. 3, pages 209-216

Document 2: JP 61-293391 A (Kabushiki Kaisha Sanko Seisakusho), 24 December 1986

Document 3: JP 11-178595 A (Cosmo Research Inst.), 06
July 1999

Claims 1-6

The invention that is set forth in claims 1-6 involves an inventive step in relation to documents 1-3 cited in the international search report. Documents 1-3 do not disclose the feature of "refining the ubiquinone-10 that is produced by microorganisms using only methanol," and it is not considered to be easy for even a person skilled in the art to conceive of this feature in the light of documents 1-3.